

# **SEMI-ANNUAL COMPLIANCE STATUS REPORT**

*Prepared for:*

**United States Department of Justice  
Washington, D.C.**

**U.S. Environmental Protection Agency - Region 6  
Dallas, Texas**

**U.S. Environmental Protection Agency – Region 7  
Kansas City, KS**

*Prepared by:*

**Plains All American Pipeline, L.P.  
Houston, Texas**

**March 20, 2013**

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**Attachment A**      **List of Pipelines Acquired During the Reporting Period**

**Attachment B**      **Status of Action Plan Development and Implementation under the Risk Management Program (RMP)**

- **Attachment B-1:**      **Risk Screening Program Action Plan Creation Report Card**
- **Attachment B-2:**      **Action Plan Element Implementation Status**

**Attachment C**      **Leak Detection and Slack Line Operations Investigation and Action Plan Development Status**

- **Attachment C-1:**      **Appendix B Pipeline Segments**
- **Attachment C-2:**      **Additional 30 Pipeline Segments**

## **1.0 Introduction**

### **1.1 Report Purpose**

This Semi-Annual Compliance Status Report has been prepared in compliance with Provision VI (Reporting Requirements) of the Consent Decree between the United States Environmental Protection Agency (EPA) and Plains All American Pipeline et al. al. (Plains) having an Effective Date of September 20, 2010. This provision of the Consent Decree requires that a semi-annual report be submitted to the United States Department of Justice and EPA Regions 6 and 7 summarizing the status of Plains' efforts towards compliance with Section V (Compliance Requirements) of the Consent Decree as well as the other specific reporting requirements of Section VI. This report covers the reporting period of September 1, 2012 to February 28, 2013.

### **1.2 Report Organization**

The Semi-Annual Compliance Status Report sections are generally organized to follow the requirements of Section V (Compliance Requirements) of the Consent Decree. The reporting requirements of Section VI are addressed as specified by the Consent Decree within these report sections. For the purposes of this report, the capitalized term "Pipeline or Pipelines" has the definition presented in Sub-Paragraph III.9.Q. of the Consent Decree.

### **1.3 Period Covered by This Report**

The Consent Decree requires that a semi-annual report be provided to EPA by no later than six months after the Effective Date of the Consent Decree and every six months thereafter until the Consent Decree terminates. Under that requirement, the time period to be covered by the first semi-annual report would have been the six month period preceding the date of the report. This presented a logistical problem in ensuring that the semi-annual compliance status report provided data and certifications that covered the reporting period specified without missing the reporting deadline. The timing specified in the Consent Decree required that the end of the reporting period match the semi-annual report deadline, which left no time to compile the required reporting data or prepare the report.

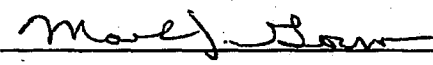
This issue was the subject of a telephone call with EPA Region 6 on February 24, 2011. During that call, it was agreed that the period covered by the first Semi-Annual Compliance Status Report would be from the Effective Date of the Consent Decree (September 20, 2010) until the end of the month preceding the reporting deadline. This agreement was documented in a follow-up e-mail from Nelson Smith (EPA, Region 6). Based on this agreement, this Semi-Annual Compliance Status Report covers the period from September 1, 2012 to February 28, 2012.

#### **1.4 Total Miles of Pipeline Purchased, Acquired, or Sold**

During the reporting period covered by this Semi-Annual Compliance Status Report, and in accordance with Consent Decree Section VI, Sub-Paragraph 20.A., Item viii, Plains notifies the EPA that it acquired 40.88 miles of new Pipeline. A more detailed discussion of Pipeline segments purchased during the reporting period is provided in Section 2.1.4 of this report. A listing of the segments of Pipeline acquired during the reporting period is provided in **Attachment A-1** to this report.

#### **1.5 Report Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on any personal knowledge I may have and my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
Mark J. Gorman, Senior Vice President

3/13/13  
Date

## **2.0 Consent Decree Compliance Status (*Consent Decree Section V*)**

The following sections present a summary of the status of compliance with each of the Provisions of Section V of the Consent Decree (CD) as of February 28, 2013.

### **2.1 Enhanced Integrity Management and Corrosion Control**

#### **2.1.1 IMP Requirements for Category I, II-B and III-B Pipelines (CD Sub-Paragraph 15.A.)**

During the reporting period covered by this Semi-Annual Compliance Status Report, Plains has assessed, operated and maintained all Category I, Category II-B and Category III-B Pipelines in accordance with the requirements of Plains' Integrity Management Plan (IMP), subject to the requirements of sub-paragraph 15.G. of the Consent Decree.

#### **2.1.2 RSP Screening of Category II-A, III-A and IV Pipelines (CD Sub-Paragraph 15.B.)**

During the reporting period covered by this Semi-Annual Compliance Status Report, Plains has assessed, operated and maintained all Category II-A, Category III-A and Category IV Pipelines in accordance with the requirements of Plains' Risk Screening Program (RSP), subject to the requirements of sub-paragraph 15.G. of the Consent Decree.

During the reporting period covered by this Semi-Annual Compliance Status Report, Plains has developed and implemented Action Plans detailing risk mitigation actions to address the risks or other anomalies found during the RSP in accordance with the Risk Category Schedule in the RSP.

Plains maintains a database that tracks all pipeline segments subject to the RSP screening, their risk levels, the development of Action Plans and Elements and the implementation of the individual Action Elements. The Consent Decree requires that Plains report progress regarding the completion of any required milestones, including "...summaries of the RSP Action Plans required pursuant to sub-paragraph 15.B. and a

description of actions taken pursuant to the RSP Action Plans during the preceding six months."

In this report, Plains provides summary tables that present a snapshot of the progress towards completion of Action Plans and Action Plan Elements developed under the RSP during the reporting period covered by this report. The first table (**Attachment B-1**) illustrates Plains' progress towards the creation and approval of Action Plans emanating from the risk screening process. It is a report card that Plains uses to measure progress towards completion of required Action Plans based upon the initial risk screening and risk level assignment. This report card shows the number of Action Plans due to be completed during the reporting period (based upon the initial screening date and the risk level assignment, or subsequent reviews), the number completed, those instances where remedial measures were implemented in the event an Action Plan was not developed or approved within the program time limits, and the percent created and approved of the total due to be completed and approved. If the program is operating properly, this report card should show 100% completed and approved for each of the Districts for that reporting period.

A second summary table (**Attachment B-2**) is a listing of Action Plan Elements and the progress towards their completion. This table lists each Action Plan Element by its unique tracking number, the district, the pipeline segment name, risk level, the Action Plan Element Category, the status of the Action Plan Element, and the proposed and actual completion dates. As this is a dynamic process, the table presents only those action plan elements that are scheduled to be completed within the current semi-annual reporting period. As with the previous table, if the program is operating properly, at the end of each semi-annual reporting period, all of the Action Plan Elements due to be completed during that reporting period should have "CPL" (complete) noted under the status column.



### **2.1.3 Integrity Management of Category II and III Pipelines (CD Sub-Paragraph 15.C.)**

During the reporting period covered by this Semi-Annual Compliance Status Report, Plains has operated and maintained all Category II-A and Category III-A (Gathering) Pipelines in conformity with the safety requirements for rural gathering pipelines established in 49 CFR 195.11(b).

As of the Effective Date of the Consent Decree (9/20/10) and in accordance V.15.C.i.a. and b., Plains has:

- identified all Category II-A and III-A (Gathering) Pipeline Segments; and
- developed and implemented a continuing education program in conformity with 40 CFR 195.444.

As of July 3, 2010, Plains developed and implemented a corrosion control program in conformance with 49 CFR 195, Subpart H, in accordance with V.15.C.i.c.

As of the Effective Date of the Consent Decree (9/20/10) and in accordance V.15.C.ii.a., Plains identified all Category II-B and III-B (Low Stress) Pipeline Segments.

In accordance with V.15.C.ii.b., Plains completed baseline assessments required under Consent Decree provision V.15.C.ii.b. based on the total mileage of Category II-B and III-B Pipeline. As discussed in the previous semi-annual compliance status report dated March 15, 2011, baseline assessments were completed on 72.6% of the Category II-B and III-B Pipeline operated by Plains as of January 3, 2011. This complied with the Consent Decree requirement that baseline assessments be completed at least 50% of the Category II-B and III-B Pipelines by January 3, 2011.

In the previous Semi Annual Compliance Status Report dated March 20, 2012, Attachment C (Summary of Baseline Assessment Status Through February 29, 2012 for Category II-B and Category III-B Pipeline Segments) provides a summary table listing the Pipeline segments covered by this

provision of the Consent Decree and the status of baseline assessments for those segments through February 29, 2012. As of February 29, 2012, baseline assessments had been completed on 100% of the Category II-B and III-B Pipeline segments operated by Plains as of the Effective Date of the Consent Decree (September 20, 2010), and has therefore complied with Sub-Paragraph V.15.C.ii.b. of the Consent Decree well in advance of the July 3, 2013 deadline.

#### **2.1.4 New Pipeline Acquisitions (CD Sub-Paragraph 15.D.)**

Between September 1, 2012 and February 28, 2013, Plains acquired 7 segments of Pipeline totaling 40.88 miles. A listing of all of the new Pipeline acquisitions by segment, including the date of acquisition of each Segment, the Classification Category of each segment (Category I, II-A, II-B, III-A, III-B and IV), the mileage of each Segment and whether centerline accuracy has been verified is provided in **Attachment A – List of Pipelines Acquired During the Reporting Period**. All of the newly acquired Pipeline segments had adequate digital mapping, have been categorized in accordance with the Consent Decree criteria contained in Sub-Paragraph III.9.A-D., and have been centerline verified.

During the reporting period covered by the summary table provided in Attachment A, five of the seven newly acquired Pipeline segments meet the Consent Decree criteria for Category IV Pipeline. As a result, these segments are subject to initial screening under Plains' RSP within 12 months of the date of acquisition as required by Consent Decree Sub-Paragraph V.15.D.i. These segments were acquired in November 30, 2012, so must be screened by November 30, 2013.

#### **2.1.5 Geographic information Systems (GIS) Mapping (CD Sub-Paragraph 15.E.)**

Plains completed initial digital mapping and Centerline Verification of all Pipelines operated by Plains as of May 1, 2010. Initial digital mapping and Centerline Verification of these Pipelines was completed by July 1, 2010.

**2.1.6 Anode Beds, Internal Corrosion Control and Close Interval Surveys (CD Sub-Paragraph 15.F.)**

In the previous Semi-Annual Compliance Status Report dated September 20, 2012, it was concluded that (after making certain reporting corrections in that report) Plains had completed all of the requirements of, and well within the deadlines specified in Sub-Paragraph 15.F. of the Consent Decree.

**2.1.7 Subsequent Revisions to Plains' IMP or RSP (CD Sub-Paragraph 15.G.)**

No material changes to Plains' IMP or RSP have been made during the reporting period.

**2.2 Enhanced Pipeline Leak Detection (Consent Decree Paragraph 16)**

**2.2.1 Weekly Aerial Patrols (CD Sub-Paragraph 16.A.)**

All active Category I, II-A, II-B, and III-B Pipelines (including all Category I, II-A, II-B and III-B Pipeline acquired since the September 20, 2010) and those active Pipelines listed in Appendix A of the Consent Decree have been the subject of a weekly aerial, motor vehicle or foot patrol (weather permitting) in accordance with the requirements of Sub-Paragraph 16.A. of the Consent Decree.

**2.2.2 Implementation of API 1130 Compliant CPM Detection (CD Sub-Paragraph 16.B.)**

All active (in service) Pipeline segments listed in Appendix B of the Consent Decree complied with the performance standards for Computational Pipeline Monitoring (CPM) Leak Detection set forth in API RP 1130 at the end of the March 1, 2011 to August 31, 2011 reporting period and as presented in the September 19, 2011 Semi-Annual Compliance Status Report. In addition, during that reporting period, Plains identified 30 additional Pipeline segments for installation of CPM

equipment as required by Sub-Paragraph V.16.C.1 of the Consent Decree. As of the end of the March 1, 2011 to August 31, 2011 reporting period and as presented in the September 19, 2011 Semi-Annual Compliance Status Report, all of these 30 additional pipeline segments complied with the performance standards for Computational Pipeline Monitoring (CPM) Leak Detection set forth in API RP 1130. This was well in advance of the December 31, 2011 deadline stipulated by Sub-Paragraph V.16.C.1 of the Consent Decree.

**2.2.3 Enhancement of API 1130 Compliant CPM Leak Detection and Minimization of Slack-Line Operations (CD Sub-Paragraph 16.C.)**

The Consent Decree requires that an investigation of specific Pipeline Segments listed in Appendix B of the Consent Decree (as well as any Segments added to the Computation Pipeline Monitoring pursuant to Sub-Paragraph 16.B.) be the subject of an investigation that is designed to identify potential enhancements to Plains' leak detection capabilities and measures to minimize Slack-Line Operations or mitigate the effects of Slack-Line Operations on the CPM leak detection systems on those Pipeline Segments.

It also requires that Action Plans be developed based upon the findings of the investigations described above, which will include one or more of the measures identified in 16.C.i.b.5. and any other actions Plains may take to improve the leak detection system and/or minimize Slack-Line Operations.

The following sections summarize Plains' activities conducted in compliance with these requirements.

**2.2.3.1 Investigation**

As documented in previous semi-annual reports and summarized in **Attachments C-1 (Appendix B Pipeline Segments)** and **C-2 (30 Additional Pipeline Segments)**, Plains has completed the investigations specified in Sub-Paragraph V.16.C.i. evaluating the extent of Slack-Line Operations for all active (in service) Pipeline

segments listed in Appendix B of the Consent Decree and the 30 additional pipeline segments as required by Sub-Paragraph V.16.B. of the Consent Decree by the December 31, 2011 deadline (Sub-Paragraph V.16.C.i.). Plains has also migrated each of these segments to the Telvent Oasis DNA Pipeline Monitoring (PLM) CPM application used in Plains' Midland, TX Operational Control Center in accordance with Sub-Paragraph V.16.C.i.a. of the Consent Decree.

### **Action Plans**

Plains developed Action Plans based upon the findings of the investigations discussed in the previous section in accordance with Sub-Paragraph V.16.C. of the Consent Decree. Of the 110 Pipeline segment investigations conducted between May 3, 2010 and September 1, 2011 (80 segments from Appendix B and 30 additional segments identified by Plains), a total of 26 concluded that no action need be taken. The remaining 84 Pipeline segment investigations concluded that an Action Plan needed to be developed and implemented. As documented in previous semi-annual reports and summarized in **Attachments C-1 (Appendix B Pipeline Segments) and C-2 (30 Additional Pipeline Segments)** to this report, all 84 Action Plans were developed between May 3, 2010 and December 5, 2011, well in advance of the March 31, 2012 deadline stipulated in Sub-Paragraph V.16.C.ii. of the Consent Decree.

As of the reporting deadline for this semi-annual compliance report and summarized in **Attachments C-1 (Appendix B Pipeline Segments) and C-2 (30 Additional Pipeline Segments)** to this report, implementation of all 84 Action Plans was completed between May 3, 2010 and February 27, 2013.

As of February 28, 2013, implementation of the Action Plans required by Sub-Paragraph V.16.C.ii. of the Consent Decree had been completed on the Appendix B pipeline segments and the 30 additional pipeline segments selected by Plains. Plains has therefore complied with all of the requirements of Sub-Paragraph V.16. of the Consent Decree.

## **2.3 Requirements for Replacement and/or Substitute Breakout Tanks (Consent Decree Paragraph 17)**

Plains complies with the requirements of this paragraph of the Consent Decree through its Management of Change (MOC) process. A Management of Change (MOC) form is required for any activity requiring the use of a substitute or breakout tank. If a substitute or breakout tank is required, an evaluation of the substitute or breakout tank storage volume adequacy and an evaluation of the adequacy of the secondary containment must be reviewed and verified by those Plains personnel approving the MOC form.

## **2.4 Personnel and Training (Consent Decree Paragraph 18)**

### **2.4.1 Position Preservation (CD Sub-Paragraph 18.A.)**

During the reporting period covered by this semi-annual report, Plains has staffed and preserved the positions listed in Sub-Paragraph V.18.A of the Consent Decree.

### **2.4.2 Employee Training (CD Sub-Paragraph 18.C. and 18.D.)**

During the reporting period covered by this semi-annual report, all personnel assigned to operate and maintain Category III-A and IV Pipelines have been trained or maintained their training in conformity with the Operator Qualification requirements of 40 CFR 195.

During the reporting period covered by this semi-annual report, six (6) new pipeline controller applicants were pre-screened using a computer simulator-based console operator assessment (Cobra).

As of December 31, 2010 Plains has trained field personnel performing Pipeline maintenance in proper Pipeline cleaning techniques and procedures. As new employees are hired this training is included in their

on-going training.

**2.5 Permits  
(Consent Decree Paragraph 19)**

No federal, state or local permit or approval was required to fulfill any compliance obligation in Section V of the Consent Decree during the reporting period of this report that would require, or have the potential to require Plains to seek relief under the provisions of Section VIII (Force Majeure) of the Consent Decree.

### **3.0 Compliance Problems During the Reporting Period**

#### **3.1 Problems Identified During the Reporting Period**

No problems were identified during the reporting period.

#### **3.2 Implemented or Planned Solutions to Problems Identified During the Reporting Period**

As no problems were identified during the reporting period, no implemented or planned solutions to problems were needed.



#### **4.0 Consent Decree Violations or Force Majeure Events**

During the reporting period covered by this Semi-Annual Compliance Status Report, no Consent Decree violations or Force Majeure Events occurred.

**ATTACHMENT A**

**List of Pipelines Acquired During the Reporting  
Period**

## ATTACHMENT A

### List of Pipelines Acquired During the Reporting Period

September 1, 2012 through February 28, 2013

Plains District	Pipeline System Name	Segment Name	Route ID No.	Segment Length (miles)	Pipeline Category	Status Code <sup>1</sup>	Previous Operator	Date Acquired	Centerline Accuracy Verified?
CORPUS CHRISTI	FAITH RANCH PIPELINE	BLAKEWAY OIL LATERAL	14200	1.82	IV	AC	CHESAPEAKE	11/30/2012	Y
CORPUS CHRISTI	FAITH RANCH PIPELINE	CATARINA OIL DISCHARGE - 10"	14180	4.97	I	AC	CHESAPEAKE	11/30/2012	Y
CORPUS CHRISTI	FAITH RANCH PIPELINE	CATARINA OIL TRUNKLINE - 10"	14175	17.82	I	AC	CHESAPEAKE	11/30/2012	Y
CORPUS CHRISTI	FAITH RANCH PIPELINE	DOS HERMANOS OIL TRUNKLINE - 8"	14182	1.83	IV	IN	CHESAPEAKE	11/30/2012	Y
CORPUS CHRISTI	FAITH RANCH PIPELINE	DOS HERMANOS OIL TRUNKLINE_2 - 8"	14183	2.37	IV	IN	CHESAPEAKE	11/30/2012	Y
CORPUS CHRISTI	FAITH RANCH PIPELINE	FAITH OIL TRUNKLINE - 8"	14177	5.73	IV	AC	CHESAPEAKE	11/30/2012	Y
CORPUS CHRISTI	FAITH RANCH PIPELINE	PENA CREEK NORTH LATERAL - 4"	14181	6.34	IV	IN	CHESAPEAKE	11/30/2012	Y
<b>Total Pipeline Mileage Acquired During Reporting Period</b>				<b>40.88</b>					
<b>Total Class I Mileage</b>						<b>22.78</b>			
<b>Total Class IV Mileage</b>						<b>18.10</b>			

<sup>1</sup> - IN = Inactive; AC = Active; PR = Proposed; RT = Retired

## **ATTACHMENT B-1**

**Status of Action Plan Development and Implementation under  
the Risk Management Program (RMP)**

**Risk Screening Program Action Plan Creation  
Report Card**

**RSP District Report Card**  
**Reporting Period: 09/01/2012 - 02/28/2013**

(Plan Preparation & Approval)						
<b>ACTION PLAN CREATION - Number of Action Plans to create &amp; approve for this Reporting Period</b>						
<b>District</b>	<b>Due for Creation</b>	<b>Approved on Time</b>	<b>AP's With Due Dates Between Today and 02/28/13</b>	<b>Remedial Action Taken or Approved within 30 Days</b>	<b>% Created &amp; Approved w/ in Program Guidelines</b>	<b>Comments</b>
Abbeville	0	0	0	0	100%	
Bakersfield	7	7	0	0	100%	
Belfield	271	271	0	0	100%	
Casper	2	2	0	0	100%	
Colorado City	15	15	0	0	100%	
Corpus Christi	1	1	0	0	100%	
Cushing	3	3	0	0	100%	
Cushing Terminal	1	1	0	0	100%	
East Cst Terminal	0	0	0	0	100%	
Evanston	2	2	0	0	100%	
Heidelberg	1	1	0	0	100%	
Kilgore	5	5	0	0	100%	
Long Beach	0	0	0	0	100%	
Midland Basin	2	2	0	0	100%	
Permian E	86	86	0	0	100%	
Permian N	12	10	0	2	100%	AP's approved during remedial measures development period (30 days)
Permian S	34	34	0	0	100%	
Russell	20	20	0	0	100%	
Wichita Falls	0	0	0	0	100%	
<b>Totals</b>	<b>462</b>	<b>460</b>	<b>0</b>	<b>2</b>	<b>100%</b>	

## **ATTACHMENT B-2**

**Status of Action Plan Development and Implementation under  
the Risk Management Program (RMP)**

**Action Plan Element Implementation Status**

APE's Completed

**Generated By:**

Richard Bayle  
Plains All American Pipeline, L.P.  
3/15/2013 11:30 AM

**Filtered By:**

Show: All rsp action plans elements  
Date Field: Actual Completion Date equals Custom (9/1/2012 to 2/28/2013)  
AP Status equals CPL

Action Plan Element	District Name	Pipeline Segment Name	Risk Level	AP Element Category	AP Status	Actual Completion Date
34116	Colorado City	Snyder B	III	Other	CPL	12/12/2012
34122	Colorado City	Douthit ABDE 504a	IV	Other	CPL	12/12/2012
34128	Colorado City	North 4"	III	Other	CPL	12/12/2012
34139	Colorado City	Central A	IV	Other	CPL	12/12/2012
34136	Colorado City	Settles East	III	Evaluate & Enhance Inhibitors or Biocides	CPL	12/12/2012
3451	Russell	Shields to Gunther Longwell	IV	Rehab or Replace Pipe	CPL	9/30/2012
75779	Permian E	Amacker 61 to Tie In 3"	IV	Other	CPL	2/7/2013
44171	Belfield	RC 33-17	III	Idle Isolate Purge	CPL	12/19/2012
75780	Permian E	Amacker 61 to Tie In 3"	IV	Idle Isolate Purge	CPL	2/7/2013
75782	Permian E	Amacker 61 Tie In to Amacker 62 4"	IV	Idle Isolate Purge	CPL	2/8/2013
44170	Permian E	Apache Douglas	IV	Idle Isolate Purge	CPL	9/17/2012
48594	Kilgore	Haynesville Stg to Haynesville Stn 6"	III	Idle Isolate Purge	CPL	9/13/2012
34223	Permian N	East Lovington to 34 Junction	IV	Idle Isolate Purge	CPL	12/5/2012
48595	Kilgore	Haynesville Stg to Haynesville Stn 4"	IV	Idle Isolate Purge	CPL	9/13/2012
71400	Colorado City	Turner Gregory (TG1)	III	Conduct Hydro	CPL	11/28/2012
75781	Permian E	Amacker 61 Tie In to Amacker 62 4"	IV	Other	CPL	2/8/2013
47123	Belfield	Cable Sara 28-15H	III	Other	CPL	9/26/2012
61364	Permian N	Central Ownby to Hendrick Pump	III	Rehab or Replace Pipe	CPL	10/10/2012
61365	Permian E	Sandhills to Crane East 8"	I	Other	CPL	11/2/2012
61366	Permian E	Sandhills to Crane East 8"	I	Other	CPL	11/5/2012
61363	Kilgore	Nettleton to Texoma	IV	Idle Isolate Purge	CPL	10/4/2012
47087	Russell	Frey Lateral	III	Other	CPL	12/19/2012
47085	Permian S	Colby Ellenberger to Keystone	II	Other	CPL	10/22/2012
69941	Cushing	Wildcat Jim to Pike (w/ Pierce Unit)	IV	Idle Isolate Purge	CPL	11/13/2012
44202	Permian S	Cimarex Bashara	IV	Other	CPL	11/9/2012
44218	Permian S	Turner to Mag Carson Pump	III	Other	CPL	12/21/2012
47105	Belfield	Flik Eddie 14-14H	III	Other	CPL	12/26/2012
47142	Belfield	Fisher 14X-28	III	Other	CPL	9/26/2012
47154	Belfield	Burning Tree State to ML Tie In	III	Other	CPL	9/26/2012
61378	Permian N	Pirkle	IV	Idle Isolate Purge	CPL	12/21/2012
44226	Permian S	Dollarhide/Cowden	IV	Other	CPL	11/1/2012
75783	Permian N	Centurian Delivery	IV	Idle Isolate Purge	CPL	1/18/2013
14187	Permian S	Johnson Deep Unit Mtr 38	IV	Conduct ILI	CPL	10/9/2012
47095	Permian N	Coe to Sun Denton	III	Other	CPL	12/27/2012
44191	Permian E	Owens Truck 6"	IV	Other	CPL	9/28/2012
47151	Belfield	Whiplash Vaira 4-2H	III	Other	CPL	9/26/2012
47152	Belfield	Burning Tree Jessie to Burning Tree State	III	Other	CPL	9/26/2012
44232	Permian S	Central Drinkard Unit 3121	III	Evaluate & Enhance CP	CPL	12/27/2012
34187	Corpus Christi	Brisco Ranch 6" (Route ID 12863)	II	Other	CPL	9/6/2012
44211	Permian S	Cooper Jal to Guttman 8"	IV	Evaluate & Enhance Inhibitors or Biocides	CPL	12/13/2012
47115	Belfield	Irigoin State 11X-16	III	Other	CPL	9/26/2012
47158	Belfield	Burning Tree Larson 25-2H	III	Other	CPL	9/26/2012
34184	Corpus Christi	Brisco Ranch 4" (Route ID 12864)	IV	Evaluate & Enhance CP	CPL	12/12/2012
47139	Belfield	Hopper Keller 24-H	III	Other	CPL	9/26/2012
47157	Belfield	Burning Tree Petey 36-3H	III	Other	CPL	9/26/2012
47153	Belfield	Burning Tree Luren 31-4H	III	Other	CPL	9/26/2012
44225	Permian S	Cowden O	IV	Idle Isolate Purge	CPL	10/24/2012
34050	Russell	3-4 Transition to Salem Station	III	Evaluate & Enhance ROW & Markers	CPL	11/30/2012
34049	Russell	Brock to 3-4 Transition	III	Evaluate & Enhance ROW & Markers	CPL	11/30/2012
71402	Colorado City	TG2	III	Conduct Hydro	CPL	11/28/2012
34035	Russell	Solomon to Carmichael	II	Conduct ILI	CPL	9/24/2012

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Action Plan Element	District Name	Pipeline Segment Name	Risk Level	AP Element Category	AP Status	Actual Completion Date
34006	Belfield	1-21 Miller	IV	Idle Isolate Purge	CPL	12/12/2012
44192	Permian E	Sandhills to Crane East 8"	I	Other	CPL	9/28/2012
44231	Permian S	Central Drinkard Unit 3020	III	Evaluate & Enhance CP	CPL	12/27/2012
44222	Permian S	Eunice King	III	Other	CPL	12/20/2012
47122	Belfield	Cable Braida Lateral	III	Other	CPL	9/26/2012
47128	Belfield	Porky Montana 16-3H	III	Other	CPL	9/26/2012
44219	Permian S	Langlie Mattix SDA	III	Other	CPL	12/20/2012
34181	Corpus Christi	Lassester & Eppright 4" (Route ID 12854)	II	Other	CPL	12/20/2012
44185	Kilgore	Exxon Mobil Receipt	III	Other	CPL	12/17/2012
44197	Permian S	Plains Knight to Lillie Sweet Pump	IV	Evaluate & Enhance Inhibitors or Biocides	CPL	12/13/2012
68514	Permian S	Bashara Pump to Keystone	IV	Other	CPL	12/31/2012
34011	Colorado City	Garza Gathering 6" ML	III	Rehab or Replace Pipe	CPL	10/30/2012
3982	Cushing	Battery # 6	III	Other	CPL	9/25/2012
4017	Bakersfield	Dehy 20 to Belridge	IV	Other	CPL	9/10/2012
4361	Permian E	McNight 1 to Waddell 11	IV	Rehab or Replace Pipe	CPL	9/20/2012
4025	Bakersfield	Landslide to 2 1/2 Mile Tie-In (Line 311)	III	Other	CPL	9/10/2012
3002	Permian N	Chevron Central Vacuum (WTS)	IV	Rehab or Replace Pipe	CPL	11/29/2012
72940	Permian N	Coe to Sun Denton	III	Other	CPL	2/15/2013
69942	Cushing	Pike to Tussy	IV	Idle Isolate Purge	CPL	11/13/2012
72939	Permian E	Pioneer No1 LACT to Mabree Sta	II	Other	CPL	1/17/2013
4070	Belfield	1-13 Olsen	III	Other	CPL	12/26/2012
4071	Belfield	1-13 Miller	IV	Other	CPL	12/26/2012
14173	Belfield	BRRU #31-8	III	Idle Isolate Purge	CPL	10/19/2012
3833	Colorado City	Kloh A	III	Conduct Hydro	CPL	9/17/2012
3834	Colorado City	Warder Meter 706	III	Conduct Hydro	CPL	9/17/2012
3835	Colorado City	Dora Roberts Mtr 704	III	Conduct Hydro	CPL	9/17/2012
4199	Heidelberg	Tellus Meter to Tank 1192 (aka Baxterville Gathering 6")	IV	Evaluate & Enhance CP	CPL	11/20/2012
34227	Permian N	Vacuum Gathering 8" ML to Vacuum Sta (WTI)	III	Rehab or Replace Pipe	CPL	9/27/2012
34222	Permian N	Anderson Ranch to 34 Junction	IV	Idle Isolate Purge	CPL	12/6/2012
4203	Russell	Gorham to Bushton	II	Conduct Hydro	CPL	12/15/2012
14172	Belfield	MPHU #2 Lateral	III	Idle Isolate Purge	CPL	9/10/2012
2600	Russell	The Bill to ML Tie In	III	Rehab or Replace Pipe	CPL	11/13/2012
2604	Russell	Sorrento to Cheyenne	III	Rehab or Replace Pipe	CPL	11/16/2012
2615	Russell	Schmeig to Arnold (U/S of Eston)	IV	Rehab or Replace Pipe	CPL	9/30/2012
2617	Russell	Schmeig to Arnold (D/S of Eston)	III	Rehab or Replace Pipe	CPL	9/30/2012
2624	Russell	Arnold to Ness	III	Rehab or Replace Pipe	CPL	9/30/2012
71466	Permian N	Doyle to Sundown Station	III	Idle Isolate Purge	CPL	2/14/2013
34235	Permian E	SDU Tract 81-A to 4" North	III	Other	CPL	11/30/2012
34224	Permian N	34 Jct to Vacuum Tie In	IV	Idle Isolate Purge	CPL	12/5/2012
34231	Permian E	Owens Truck 4"	IV	Idle Isolate Purge	CPL	12/13/2012
34239	Permian E	Powell 9D-53D	III	Other	CPL	12/19/2012
34232	Permian E	Owens Truck 6"	IV	Idle Isolate Purge	CPL	12/13/2012
34233	Permian E	137A to Tie In	III	Other	CPL	11/2/2012
34229	Permian E	Chevron Central to Crane East 10"	IV	Other	CPL	12/13/2012
34230	Permian E	Woody I,J,K Discharge	III	Other	CPL	10/30/2012
34234	Permian E	108A & 109A to Tie In	IV	Other	CPL	11/2/2012
71470	Permian N	Exxon Coons to Doyle	IV	Idle Isolate Purge	CPL	12/27/2012
48603	Permian N	Vacuum Gathering 8" ML to Vacuum Sta (WTI)	III	Conduct Hydro	CPL	9/27/2012
34237	Permian E	Cooper 35B	III	Other	CPL	10/26/2012



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Action Plan Element	District Name	Pipeline Segment Name	Risk Level	AP Element Category	AP Status	Actual Completion Date
71502	Permian S	Johnson Deep Unit Mtr 38	IV	Determine Long Term Operational Plan	CPL	1/31/2013
71454	Permian N	Cobb San Andres	III	Evaluate & Enhance Inhibitors or Biocides	CPL	1/29/2013
71501	Permian E	Waddell 1	IV	Idle Isolate Purge	CPL	10/28/2012
71505	Permian S	6" South Sour to Keystone	IV	Determine Long Term Operational Plan	CPL	12/31/2012
41315	Permian E	North Curtis to Mabee	IV	Other	CPL	12/20/2012
41310	Permian E	University 26 Pump to Coates Tie In	III	Other	CPL	12/19/2012
7016	Permian E	McKnight 179	IV	Rehab or Replace Pipe	CPL	9/20/2012
34236	Permian E	Powell 4-13 to Powell Ranch	III	Other	CPL	10/26/2012
34238	Permian E	Powell 4B-33D	III	Other	CPL	12/20/2012
37069	Permian E	Cauble Discharge w/ Laterals (Cauble Gathering)	III	Other	CPL	12/20/2012
34240	Permian E	Powell 4A-23D	IV	Other	CPL	12/20/2012
71506	Permian S	East WTS to Falcon Pump	III	Determine Long Term Operational Plan	CPL	12/31/2012
34241	Permian E	Sandhills to Crane East 8"	I	Evaluate & Enhance Inhibitors or Biocides	CPL	9/5/2012
71472	Permian N	Chevron Givan	IV	Idle Isolate Purge	CPL	12/27/2012
45666	Permian E	JB Tubbs B11	II	Other	CPL	9/27/2012
71471	Permian N	Mobil Givan	IV	Idle Isolate Purge	CPL	12/27/2012
3329	Permian E	Garden City to Powell	III	Rehab or Replace Pipe	CPL	10/30/2012
7015	Permian E	Tie-In to McKnight M16	IV	Rehab or Replace Pipe	CPL	9/20/2012
2765	Belfield	Lone Butte ML 6"	III	Rehab or Replace Pipe	CPL	9/11/2012
7014	Permian E	McKnight M16	IV	Rehab or Replace Pipe	CPL	9/20/2012
4414	Belfield	Spring Lake Station - Lone Tree Station ML	III	Other	CPL	9/26/2012
4416	Belfield	Dynneson Junction - Four Mile Station	III	Other	CPL	9/26/2012
4412	Belfield	Lone Tree Station - Dynneson Junction	III	Other	CPL	9/26/2012
71503	Permian S	Foster Gathering 6" ML (Non Reg Portions)	III	Determine Long Term Operational Plan	CPL	1/31/2013
71507	Permian S	Falcon Pump to 6" South WTS	III	Determine Long Term Operational Plan	CPL	12/31/2012
47179	Belfield	Holecck to Rhame 2"	III	Idle Isolate Purge	CPL	9/10/2012
22358	Corpus Christi	George West	III	Rehab or Replace Pipe	CPL	11/15/2012
71370	Colorado City	Shell 4"	II	Other	CPL	11/26/2012
4433	Permian E	Conger to Garden City ML	III	Rehab or Replace Pipe	CPL	1/17/2013
4581	Permian E	Amacker 87	III	Evaluate & Enhance Inhibitors or Biocides	CPL	10/23/2012
4569	Permian E	Main Pump to Powell	III	Conduct ILL	CPL	11/12/2012
71448	Permian N	Chevron Central Vacuum (WTS)	IV	Idle Isolate Purge	CPL	11/30/2012
71485	Permian E	RB KK	III	Idle Isolate Purge	CPL	11/5/2012
71495	Permian E	Tie-In to McKnight M16	IV	Idle Isolate Purge	CPL	9/25/2012
71424	Permian S	Dollarhide/Cowden	IV	Idle Isolate Purge	CPL	11/5/2012
71481	Permian E	Chevron Central to Crane East 10"	IV	Evaluate & Enhance Inhibitors or Biocides	CPL	2/4/2013
72943	Colorado City	Rocker A Mainline (Post to ML Pump)	II	Other	CPL	1/17/2013
67060	Colorado City	DB Read	IV	Idle Isolate Purge	CPL	12/19/2012
4593	Bakersfield	Leutholtz to Line 62 Connection (Line 323)	III	Conduct Hydro	CPL	12/20/2012
4594	Bakersfield	Rio Viejo (Line 325)	IV	Conduct Hydro	CPL	12/19/2012
71480	Permian E	Chevron Central to Crane East 10"	IV	Evaluate & Enhance CP	CPL	1/31/2013
71494	Permian E	McKnight 179	IV	Idle Isolate Purge	CPL	9/25/2012
71434	Permian N	EK Queen 6" ML (WTI)	I	Other	CPL	1/31/2013
71482	Permian E	Amacker to Crane West 8"	III	Evaluate & Enhance CP	CPL	1/31/2013
67098	Colorado City	Robert Wash Douthit A 4"	IV	Idle Isolate Purge	CPL	12/10/2012
71493	Permian E	McKnight 1 to Waddell 11	IV	Idle Isolate Purge	CPL	9/25/2012
4598	Bakersfield	SCU 18 to Cuyama	III	Conduct ILL	CPL	12/11/2012
4616	Permian E	Chevron Conger	IV	Conduct ILL	CPL	11/12/2012
4623	Permian S	4" Landreth/Bobcat to 6" Launcher	III	Rehab or Replace Pipe	CPL	1/22/2013
4665	Permian E	South Cross Tie In to S El Cinco	II	Rehab or Replace Pipe	CPL	12/18/2012
4614	Permian E	Rocker B N Truck Sta to Ball Sta	IV	Conduct ILL	CPL	11/13/2012

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Action Plan Element	District Name	Pipeline Segment Name	Risk Level	AP Element Category	AP Status	Actual Completion Date
71496	Permian E	McKnight M16	IV	Idle Isolate Purge	CPL	9/25/2012
24401	Colorado City	Snyder Field Discharge	I	Conduct Hydro	CPL	9/17/2012
4705	Belfield	Obergfell Steinbeiser Lateral	III	Other	CPL	10/23/2012
4706	Belfield	Obergfell Steinbeiser Lateral	III	Other	CPL	9/20/2012
72944	Permian E	Connell B & C	III	Verify Idle Purged & Disconnected.	CPL	2/26/2013
4712	Belfield	Dynneson Jct to Richland Station	III	Other	CPL	10/23/2012
4713	Belfield	Tie-In to Dynneson Jct	III	Other	CPL	10/23/2012
4707	Belfield	Obergfell Steinbeiser Lateral	III	Other	CPL	11/20/2012
4702	Belfield	Sawyer #1 to Mainline	III	Other	CPL	10/23/2012
4703	Belfield	Sawyer #1 to Mainline	III	Other	CPL	12/13/2012
4714	Belfield	Richland Station to Vanderhoof	III	Other	CPL	10/23/2012
2989	Colorado City	Shell to Forsan 6"	III	Rehab or Replace Pipe	CPL	9/17/2012
44169	Permian E	Parrish Pump Gath	IV	Idle Isolate Purge	CPL	9/12/2012
4708	Belfield	Merrill	IV	Other	CPL	9/20/2012
3859	Permian E	Amacker to McElroy	IV	Rehab or Replace Pipe	CPL	10/24/2012
34065	Russell	Dixon Sleeper to ML	III	Evaluate & Enhance ROW & Markers	CPL	11/30/2012
6378	Casper	Cottonwood to Kirby 8"	III	Rehab or Replace Pipe	CPL	10/13/2012
3563	Permian N	Vacuum Tie In to Lea Stn	I	Rehab or Replace Pipe	CPL	12/12/2012
3531	Permian N	Tobe Foster to Tobe Joe Pump	II	Evaluate & Enhance CP	CPL	9/4/2012
34039	Russell	Riverview LACT	III	Evaluate & Enhance CP	CPL	12/17/2012
50055	Cushing	Burkey	IV	Idle Isolate Purge	CPL	10/15/2012
34088	Permian E	Owens Truck 6"	IV	Other	CPL	12/13/2012
68515	Permian S	Bashara Pump to Keystone	IV	Idle Isolate Purge	CPL	2/15/2013
34100	Permian S	Wink East to Kinder Morgan 8"	IV	Idle Isolate Purge	CPL	10/23/2012
44199	Permian S	S Mattis	III	Other	CPL	12/13/2012
34123	Colorado City	Chalk & Cole Estates	IV	Other	CPL	12/12/2012
72945	Permian E	Pioneer No1 LACT to Mabee Sta	II	Other	CPL	2/26/2013
72950	Permian E	Amacker 61 Tie In to Amacker 62 4"	IV	Determine Long Term Operational Plan	CPL	1/25/2013
34005	Belfield	15X-16 State Lateral	IV	Idle Isolate Purge	CPL	12/12/2012
34027	Russell	Dodge B	IV	Idle Isolate Purge	CPL	9/30/2012
34041	Russell	Wasinger LACT	III	Evaluate & Enhance Cleaning Pig Program	CPL	11/30/2012
34015	Russell	Gunther Longewell to Schmeig	IV	Rehab or Replace Pipe	CPL	9/30/2012
34040	Russell	Wasinger LACT	III	Evaluate & Enhance CP	CPL	12/17/2012
34038	Russell	Henderson A	III	Evaluate & Enhance CP	CPL	12/17/2012
34037	Russell	Henderson A	III	Evaluate & Enhance Cleaning Pig Program	CPL	11/30/2012
34121	Colorado City	Mary E Douthit	III	Idle Isolate Purge	CPL	12/10/2012
68517	Permian S	Cimarex Bashara	IV	Idle Isolate Purge	CPL	2/15/2013
34127	Colorado City	St. Louie	IV	Other	CPL	12/12/2012
68516	Permian S	Cimarex Bashara	IV	Other	CPL	12/31/2012
34124	Colorado City	Chalk A	IV	Other	CPL	12/12/2012
34126	Colorado City	Otis Chalk	IV	Other	CPL	12/12/2012
68518	Permian S	Sillurian to Bashara Pump	IV	Other	CPL	12/31/2012
34120	Colorado City	Cabot Discharge to Alon	IV	Conduct Hydro	CPL	9/17/2012
68519	Permian S	Sillurian to Bashara Pump	IV	Idle Isolate Purge	CPL	2/15/2013
48596	Permian N	State DW #1 (Steel)	IV	Evaluate & Enhance Cleaning Pig Program	CPL	9/7/2012
34114	Colorado City	Denman E	IV	Idle Isolate Purge	CPL	9/17/2012
58534	Colorado City	Macy Lott	IV	Idle Isolate Purge	CPL	9/25/2012
34125	Colorado City	Chalk 1292 & 1293	IV	Other	CPL	12/12/2012
34119	Colorado City	Satter White (system)	IV	Idle Isolate Purge	CPL	9/17/2012
34138	Colorado City	Forsan Settles to Henshaw	IV	Idle Isolate Purge	CPL	12/11/2012
47084	Permian S	Colby Ellenberger to Keystone	II	Other	CPL	10/19/2012

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Action Plan Element	District Name	Pipeline Segment Name	Risk Level	AP Element Category	AP Status	Actual Completion Date
34129	Colorado City	Chalk A to ML	IV	Other	CPL	12/12/2012
Grand Totals (203 records)						

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## **ATTACHMENT C**

### **Leak Detection and Slack Line Operations Investigation and Action Plan Development and Implementation Status**

**ATTACHMENT C-1**

**Leak Detection and Slack Line Operations  
Investigation and Action Plan Development and  
Implementation Status  
Appendix B Pipeline Segments**



# ATTACHMENT C-1

## Leak Detection and Slack Line operations Investigation and Action Plan Development and Implementation Status

September 1, 2012 through February 28, 2013

	CONSENT DECREE APPENDIX B PLM/CPM NAME	PIPELINE SEGMENT DESCRIPTION	CPM SYSTEM(S)	STATUS	INVESTIGATION				ACTION PLANS			
					DATE COMPLETED	FLOWING SLACK (bbls)	SHUT-IN SLACK (bbls)	REFILL TIME (min)	DATE DEVELOPED	ACTION TAKEN TO DATE <sup>1</sup>	ACTION PLAN STATUS <sup>2</sup>	DATE COMPLETED
1	RP_STSRP_DPTRP	Stroud to Dupont Terminal 10" Bypass - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	5/3/2010	0	0	10-15	5/3/2010	DTAs Configured	Complete	5/3/2010
2	EP_ELPEP_ABQEP	El Paso to Albuquerque - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	7/1/2010	0	100-700	30-60	8/5/2010	2 CVs installed, DTAs configured, LPC added	Complete	4/26/2011
3	BS_WFL_CSH	Basin Wichita Falls to Cushing - O/S	SimSuite, OASyS 7 DNA PLM	API RP 1130 Compliant	10/7/2010	0-640	0-3230	10-20	10/7/2010	CV installed, DTAs configured, RTTM Installed	Complete	7/18/2011
4	BS_COL_WFL	Basin Colorado City to Wichita Falls - O/S	SimSuite, OASyS 7 DNA PLM	API RP 1130 Compliant	10/7/2010	0	3,000-7,500	10-50	10/7/2010	DTAs configured, Meter installed, RTTM Installed	Complete	7/18/2011
5	LN2000/63	Line 2000/63 SSP	SimSuite, OASyS 7 DNA PLM	API RP 1130 Compliant	8/2/2010	0	550	60	8/2/2010	DTAs Configured	Complete	8/2/2010
6	RP_STSRP_RCTRP	Stroud to Rapid City Terminal 6" - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	7/1/2010	0	10-50	15-60	7/1/2010	DTAs Configured	Complete	7/1/2010
7	RP_STSRP_CHTRP	Stroud to Cheyenne Terminal 8" - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	7/21/2010	0	10-30	10-15	7/21/2010	DTAs Configured	Complete	7/21/2010
8	TL_MED_OKI	Tulsa - Medford to Oki Junction - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/7/2010	0	0	30-90	9/7/2010	DTAs Configured	Complete	9/7/2010
9	RP_NCSRP_RCTRP	New Castle to Rapid City Terminal 6" - O/S (inc WRC 8")	OASyS 7 DNA PLM	API RP 1130 Compliant	10/1/2010	0	0-30	0-15	10/1/2010	DTAs Configured	Complete	10/1/2010
10	RR_YTS_HLD	Yantis to Healdton	OASyS 7 DNA PLM	API RP 1130 Compliant	7/1/2010	0	200-300	60-90	7/1/2010	Δ Ops Procedure, DTAs Configured	Complete	10/1/2010
11	RR_HLD_RCS	Healdton to Cushing	OASyS 7 DNA PLM	API RP 1130 Compliant	10/26/2010	0	0	30	12/5/2011	Δ Ops Procedure, DTAs Configured, RTU installed	Complete	4/30/2012
12	BOAC	Bay Marchand/Ostrica to Alliance - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/1/2010	0	0	30	9/1/2010	DTAs Configured	Complete	9/1/2010
13	SCS_BRM	Bumpas Coffeyville to Broom	OASyS 7 DNA PLM	API RP 1130 Compliant	8/16/2010	0	170	30	8/16/2010	DTAs Configured	Complete	8/16/2010
14	RP_CHTRP_DPTRP	Cheyenne South to Dupont - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/23/2010	0	0	10-15	9/23/2010	DTAs Configured	Complete	9/23/2010
15	BS_BJL_BML	Basin Jal to Basin Midland - O/S	SimSuite, OASyS 7 DNA PLM	API RP 1130 Compliant	10/7/2010	0	2750	20	3/30/2011	Meter & CV installed, DTAs configured, RTTM Installed	Complete	5/23/2012
16	BS_BML_COL	Basin Midland to Colorado City - O/S	SimSuite, OASyS 7 DNA PLM	API RP 1130 Compliant	9/23/2010	0	3800-4000	30-45	3/30/2011	2 Meters installed, DTAs configured, RTTM Installed	Complete	7/18/2012
17	RP_CMSRP_FOTRP	Commerce City to Fountain - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	7/1/2010	50-75	150-200	30-60	7/1/2010	Δ Ops Procedure, DTAs Configured	Complete	9/30/2010
18	PB_WSN_WOD	Wasson to West Odessa - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/15/2010	0	600	25	9/15/2010	DTAs Configured	Complete	10/28/2010
19	BF_SKH_BLN	Stockholm to Blaine O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	7/1/2010	665	665-950	60-90	12/5/2011	Δ Ops Procedure, BV, CV, Meter, & RTU installed, DTAs Configured	Complete	2/4/2013
20	MG_TEN_LUM	Ten Mile to Lumberton 14"	OASyS 7 DNA PLM	API RP 1130 Compliant	6/1/2010	0	75	25	7/2/2010	DTAs Configured	Complete	7/2/2010
21	MG_LUM_EUT_L2	Eucutta to Lumberton Line 2	OASyS 7 DNA PLM	API RP 1130 Compliant	6/1/2010	150	150-200	30	4/14/2011	Δ Ops Procedure, DTAs Configured, CV Installed	Complete	6/21/2012
22	CW_PKE_WRV	Capwood - Patoka East to Wood River - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	8/16/2010	0	370	30	8/16/2010	DTAs Configured	Complete	8/16/2010
23	MG_LUM_EUT_L3	Lumberton to Eucutta line 3	OASyS 7 DNA PLM	API RP 1130 Compliant	9/27/2010	50	75	25-30	4/14/2011	RTU installed, DTAs Configured	Complete	1/16/2012
24	BF_HAR_SKH	Harpers Ranch to Stockholm - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	8/16/2010	150	175-200	60-90	6/9/2011	Meter & RTU installed, DTAs Configured	Complete	1/2/2013
25	CS_ORN_CAL	Orion to Calumet	OASyS 7 DNA PLM	API RP 1130 Compliant	9/1/2010	120	600	120	6/9/2011	BV, CV, & RTU installed, DTAs Configured	Complete	12/8/2011
26	CAM1	Clovelly to Alliance / Murphy - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/1/2010	0	0	15	9/1/2010	None Required	Complete	9/1/2010
27	CA_PNTCA_EMDCA	Pentland to Emidio - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/1/2010	0	200	10	9/1/2010	DTAs Configured	Complete	9/1/2010
28	CS_CAS_CCJ	CASHION CASHION - CIMARRON - CUSHING O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	11/9/2010	0	600-900	30-40	12/5/2011	CV installed, DTAs Configured	Complete	4/18/2012
29	CS_BLN_CAS	Blaine to Cashion - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/1/2010	0	800	45	12/5/2011	CV and RTU installed, DTAs Configured	Complete	4/2/2012
30	CH_OKY_CUS	Oklahoma to Cushing	OASyS 7 DNA PLM	API RP 1130 Compliant	10/20/2010	0	775	80	6/9/2011	CV installed, Δ Ops Procedure, DTAs Configured	Complete	3/20/2012
31	CA_LSFCA_PNTCA	Las Flores to Pentland - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/1/2010	430	550	20	9/1/2010	Δ Ops Procedure, DTAs Configured	Complete	10/28/2010
32	KE_GOR_BUS	Gorham to Schurr	OASyS 7 DNA PLM	API RP 1130 Compliant	11/10/2010	0-400	400	60-90	6/9/2011	2 injections removed from service, CV, Meter, & RTU installed, DTAs Configured	Complete	1/2/2013

# ATTACHMENT C-1

## Leak Detection and Slack Line operations Investigation and Action Plan Development and Implementation Status

September 1, 2012 through February 28, 2013

	CONSENT DECREE APPENDIX B PLM/CPM NAME	PIPELINE SEGMENT DESCRIPTION	CPM SYSTEM(S)	STATUS	INVESTIGATION				ACTION PLANS			
					DATE COMPLETED	FLOWING SLACK (bbls)	SHUT-IN SLACK (bbls)	REFILL TIME (min)	DATE DEVELOPED	ACTION TAKEN TO DATE <sup>1</sup>	ACTION PLAN STATUS <sup>2</sup>	DATE COMPLETED
33	CS_ELK_COY	Elk City to Colony	OASyS 7 DNA PLM	API RP 1130 Compliant	11/1/2010	0	100-300	5-10	11/1/2010	None Required	Complete	11/1/2010
34	SP_SDWSP_KCXSP	Sulfur Draw to Ken Cox - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	10/12/2010	0	0	5-10	10/12/2010	None Required	Complete	10/12/2010
35	CS_VER_CAL	Verdon to Calumet	OASyS 7 DNA PLM	API RP 1130 Compliant	9/23/2010	0	70	30-60	12/5/2011	CV & RTU installed, DTAs Configured	Complete	10/15/2012
36	GM_GMD_HMA	Golden Meadow to Liretta	OASyS 7 DNA PLM	API RP 1130 Compliant	8/31/2010	0	0	10-20	8/31/2010	DTAs Configured	Complete	8/31/2010
37	SHI_PLM1	Sandhills to Crane	OASyS 7 DNA PLM	API RP 1130 Compliant	11/10/2010	500	500	150	4/13/2011	CV, Meter, & RTU installed, DTAs Configured	Complete	2/27/2013
38	C_PLM08	Delek to Tyler	OASyS 7 DNA PLM	API RP 1130 Compliant	6/1/2010	10	100	40	9/1/2011	MOV installed, DTAs Configured	Complete	12/16/2011
39	ND_RHM_MRM	Rhame to Marmarth	OASyS 7 DNA PLM	API RP 1130 Compliant	12/1/2010	550	550	60	6/14/2011	CV & RTU installed	Complete	1/3/2013
40	AT_TRU_SHG	Trunkline to Shell Gibson	OASyS 7 DNA PLM	API RP 1130 Compliant	11/1/2010	0	0	5	11/1/2010	DTAs Configured	Complete	11/1/2010
41	FD_RBU_CBK	Ross Bayou to Canebrake	OASyS 7 DNA PLM	API RP 1130 Compliant	10/15/2010	0	0	0	10/15/2010	DTAs Configured	Complete	10/15/2010
42	SP_CSRSP_DRVSP	Coates to Driver - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	8/25/2010	0	0	0	8/25/2010	DTAs Configured	Complete	8/25/2010
43	KW_TRN_HRN	Trenton - Herndon O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	11/17/2010	320	450	240	6/9/2011	CV & Meter installed, DTAs Configured	Complete	8/20/2012
44	ND_MRM_BAK	Marmarth to Baker	OASyS 7 DNA PLM	API RP 1130 Compliant	11/24/2010	700-1000	700-1000	30-45	4/18/2011	CV installed, DTAs Configured	Complete	1/3/2013
45	KE_NES_HOG	Ness City - Riverside - Hodgeman O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/21/2010	0	75-250	60-120	6/9/2011	CV, Meter, & RTU installed, DTAs Configured	Complete	1/8/2013
46	RR_HWK_QMN	Hawkins to Quitman	OASyS 7 DNA PLM	API RP 1130 Compliant	10/28/2010	0	20-40	10-15	10/28/2010	DTAs Configured	Complete	10/28/2010
47	BF_KAU_ORN	Kaufman to Orion - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	11/10/2010	0	0	0	11/10/2010	None Required	Complete	11/10/2010
48	MG_CHU_TEN	Churchula to Ten Mile	OASyS 7 DNA PLM	API RP 1130 Compliant	11/19/2010	0	150-200	15-20	11/19/2010	DTAs Configured	Complete	11/19/2010
49	GM_CAI_COC	Cailou Island to Cocodrie	OASyS 7 DNA PLM	API RP 1130 Compliant	9/28/2010	0	0	0	9/28/2010	None Required	Complete	9/28/2010
50	SP_TIPSP_SPBSP	Tippett to Patterson - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	12/2/2010	0	0	10	12/2/2010	None Required	Complete	12/2/2010
51	C_PLM23_CRSA	Crain Ranch to Sabine	OASyS 7 DNA PLM	API RP 1130 Compliant	11/1/2010	0	0	0	11/1/2010	None Required	Complete	11/1/2010
52	MG_EUT_YCK	Eucutta to Yellow Creek	OASyS 7 DNA PLM	API RP 1130 Compliant	7/6/2010	0	120-160	10-20	7/6/2010	DTAs Configured	Complete	7/6/2010
53	SP_WESNJ_CGVRW	Westbrook to China Grove - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	10/26/2010	0	10-30	10	10/26/2010	None Required	Complete	10/26/2010
54	AR_HAY BUM	Arkatex	OASyS 7 DNA PLM	API RP 1130 Compliant	10/26/2010	0	100-300	30	9/1/2011	Δ Ops Procedure, CV installed, DTAs Configured	Complete	1/14/2013
55	SP_FLD_MIDSP	Floyd to Midland - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	10/28/2010	0	5-20	3-5	10/28/2010	None Required	Complete	10/28/2010
56	CA_BELCA_LIGHT	Belridge Light Incoming - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	11/1/2010	0	0	0	11/1/2010	None Required	Complete	11/1/2010
57	AT_BDK_PAP	Burns Dock to Patterson	OASyS 7 DNA PLM	API RP 1130 Compliant	11/16/2010	0	20-40	5-10	11/16/2010	DTAs Configured	Complete	11/16/2010
58	MG_TEN_MOS	Ten Mile to Mobil Ship 14"	OASyS 7 DNA PLM	API RP 1130 Compliant	11/18/2010	450	450	15-45	4/14/2011	CV & RTU installed, DTAs Configured	Complete	12/31/2012
59	PG_10GPG_LAKPG*	EKV/LAK/COL via L65	OASyS 7 DNA PLM	API RP 1130 Compliant	11/1/2010	370	370	60	3/23/2011	CV installed	Complete	1/18/2012
	PG_10GPG_LAKPG	EKV/LAK/COL via L50	OASyS 7 DNA PLM	API RP 1130 Compliant	11/1/2010	170	170	20	3/23/2011	CV installed	Complete	11/1/2011
60	RR_QMN_YTS	Quitman to Yantis	OASyS 7 DNA PLM	API RP 1130 Compliant	10/1/2010	0	0	0	10/1/2010	DTAs Configured	Complete	10/1/2010
61	SP_GLCSP_MIDSP	Glasscock to Midland - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	10/1/2010	0	0-30	10-20	10/1/2010	DTAs Configured	Complete	10/1/2010
62	SP_OWNSP_BLLSP	Owens to Ball - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	11/15/2010	115	150-200	30-60	4/13/2011	Remove from service	Complete	12/13/2012
63	NM_DLH_JAL	Dollarhide to Jal	OASyS 7 DNA PLM	API RP 1130 Compliant	10/11/2010	0	225-300	60	4/19/2011	Δ Ops Procedure, DTAs Configured	Complete	6/1/2011
64	C_PLM12_PWFL	Powell to Floyd - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	10/28/2010	0	50-150	10-20	10/28/2010	DTAs Configured	Complete	10/28/2010
65	SP_GRWSP_MIDSP	Greenwood to Midland - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	11/9/2010	0	10-20	5	11/9/2010	None Required	Complete	11/9/2010
66	CH_HWT_TSY	Cherokee Hewitt to Tussy	OASyS 7 DNA PLM	API RP 1130 Compliant	10/20/2010	0	775	80	10/20/2010	Remove from service	Complete	10/24/2010
67	EL_BUR_DCK	Burns Terminal to Burns Dock	OASyS 7 DNA PLM	API RP 1130 Compliant	11/8/2010	0	0	0	11/8/2010	None Required	Complete	11/8/2010
68	CA_ALHCA_BELCA	Aera Lost Hills to Belridge - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	12/1/2010	0	0	0	12/1/2010	None Required	Complete	12/1/2010

# ATTACHMENT C-1

## Leak Detection and Slack Line operations Investigation and Action Plan Development and Implementation Status

September 1, 2012 through February 28, 2013

	CONSENT DECREE APPENDIX B PLM/CPM NAME	PIPELINE SEGMENT DESCRIPTION	CPM SYSTEM(S)	STATUS	INVESTIGATION				ACTION PLANS			
					DATE COMPLETED	FLOWING SLACK (bbls)	SHUT-IN SLACK (bbls)	REFILL TIME (min)	DATE DEVELOPED	ACTION TAKEN TO DATE <sup>1</sup>	ACTION PLAN STATUS <sup>2</sup>	DATE COMPLETED
69	CH_TSY_OKY	Tussy to Oklahoma City	OASyS 7 DNA PLM	API RP 1130 Compliant	10/20/2010	0	775	80	6/9/2011	CV installed, Δ Ops Procedure, DTAs Configured	Complete	3/20/2012
70	AT_COA_PAP	Coastal to Patterson Pump	OASyS 7 DNA PLM	API RP 1130 Compliant	10/14/2010	0	0	5	10/14/2010	None Required	Complete	10/14/2010
71	SP_HNYSP_CSRSP	Hanley to Coates Ranch	OASyS 7 DNA PLM	API RP 1130 Compliant	10/6/2010	0	0	0	10/6/2010	None Required	Complete	10/6/2010
72	RP_DPTRP_CMSRP_SOUTH	Dupont - Commerce City South - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	12/1/2010	0	0	0	12/1/2010	None Required	Complete	12/1/2010
73	RP_CMSRP_DPTRP	Commerce City to Dupont North - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	11/29/2010	0	0	0	11/29/2010	None Required	Complete	11/29/2010
74	BS_CFL_CNC	Basin Conoco Falls to Conoco - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	10/1/2010	0	0	5	10/1/2010	None Required	Complete	10/1/2010
75	JP_ELPJP_JUAJP	El Paso to Juarez - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/27/2010	0	10-20	5	9/27/2010	DTAs Configured	Complete	9/27/2010
76	CFD_PLM4	Cranfield Truck to Cranfield	OASyS 7 DNA PLM	API RP 1130 Compliant	10/5/2010	0	20-30	5-10	10/5/2010	None Required	Complete	10/5/2010
77	PG_LAKPG_KEYPG	Lake to Kelly 10" Line 1 - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	10/1/2010	0	0	5	10/1/2010	None Required	Complete	10/1/2010
78	ST_GWS_VLO	George West to Valero	OASyS 7 DNA PLM	API RP 1130 Compliant	10/11/2010	0	0	3	10/11/2010	None Required	Complete	10/11/2010
79	PG_EDACA_LAKPG	Derby to Lake 8" Line 2 - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	11/1/2010	300	300	60	10/28/2011	1 injection removed from service, CV installed, DTAs Configured	Complete	2/12/2013
80	BRGLK_BUR	Bridger Lake Station 8 to Burns Terminal - O/S	OASyS 7 DNA PLM	API RP 1130 Compliant	9/27/2010	0	0	5	9/27/2010	None Required	Complete	9/27/2010

\*PG\_10GPG\_LAKPG was divided into 2 separate PLMs -- PG\_18EPG\_L65PG and PG\_10GPG\_L50PG -- in order to improve the fidelity of the leak detection on that segment.

<sup>1</sup> **Action Taken To Date**

**In Development:** Measure(s) to minimize Slack-Line Operations and/or mitigate the effects of Slack-Line Operations on the CPM leak detection systems is being determined.

**None Required:** No action required. Current CPM leak detection tolerances are adequate or Slack-Line Operations are not present.

**Δ Ops Procedure:** Operating procedures for the applicable Segments of Pipeline including the "start-up" and "shut-in" procedures have been revised.

**BV, CV, MOV ordered/installed:** Block valves (BV), Motor operated valves (MOV), or pressure control devices (CV) have been installed.

**DTAs Configured:** CPM alarm limits have been adjusted to account for the expected refilling of the slack volumes.

**LPC Added:** Line-pack correction has been added to the CPM to compensate for changes in pipeline inventory.

**Meter ordered/installed:** Meter has been installed to improve the line balance between the originating and terminating stations.

**Remove from service:** All or a portion of the pipeline has been removed from the CPM segment.

**RTTM Installed:** Real time transient model has been configured to provide enhanced leak detection on the pipeline segment.

**RTU ordered/installed:** Remote Terminal Unit has been installed at a field site in order to transmit recorded pressure and/or flow and/or temperature measurements back to SCADA.

<sup>2</sup> **Action Plan Status**

**In Development:** Action Plan is being developed. Measure(s) to minimize Slack-Line Operations and/or mitigate the effects of Slack-Line Operations on the CPM leak detection systems is being determined; some measures may be implemented prior to an action plan being developed.

**In Progress:** Action Plan has been developed and the measures to minimize Slack-Line Operations and/or mitigate the effects of Slack-Line Operations on the CPM leak detection system is being implemented.

**Complete:** Action Plan has been developed and the measures to minimize Slack-Line Operations and/or mitigate the effects of Slack-Line Operations on the CPM leak detection system have been implemented.



**ATTACHMENT C-2**

**Leak Detection and Slack Line Operations  
Investigation and Action Plan Development and  
Implementation Status  
Additional 30 Pipeline Segments**

## ATTACHMENT C-2

### Leak Detection and Slack Line operations Investigation and Action Plan Development and Implementation Status

September 1, 2012 through February 28, 2013

	CONSENT DECREE ADDITIONAL 30 SEGMENTS OF PIPELINE PLM/CPM NAME	PIPELINE SEGMENT DESCRIPTION	CPM SYSTEM(S)	STATUS	INVESTIGATION				ACTION PLANS			
					DATE COMPLETED	FLOWING SLACK (bbls)	SHUT-IN SLACK (bbls)	REFILL TIME (min)	DATE DEVELOPED	ACTION TAKEN TO DATE <sup>1</sup>	ACTION PLAN STATUS <sup>2</sup>	DATE COMPLETED
1	AK_HSSAK_CCVAK	Haynesville Storage to Calumet/Cotton Valley	OASys 7 DNA PLM	API RP 1130 Compliant	6/20/2011	0	60-90	30	9/1/2011	Δ Ops Procedure, DTAs Configured	Complete	2/6/2012
2	AT_S6ZAT_SHGAT	Station 62 to Shell Gibson	OASys 7 DNA PLM	API RP 1130 Compliant	8/1/2011	0	0	0	8/1/2011	None Required	Complete	8/1/2011
3	BC_VNCBC_CHV	Venice to Chevron	OASys 7 DNA PLM	API RP 1130 Compliant	5/2/2011	0	0	0	5/2/2011	DTAs Configured	Complete	5/2/2011
4	CA_BELCA_PGSCA	Belridge to Pentland	OASys 7 DNA PLM	API RP 1130 Compliant	5/16/2011	300	1800	120	5/19/2011	CV & RTU installed, DTAs Configured	Complete	1/22/2013
5	CH_HWTCH_NUSCH	Hewitt to NuStar	OASys 7 DNA PLM	API RP 1130 Compliant	10/14/2010	0	0	0	10/14/2010	None Required	Complete	10/14/2010
6	CW_PTT_PTK	Patoka Truck to Patoka Station	OASys 7 DNA PLM	API RP 1130 Compliant	7/27/2011	0	0	0	7/27/2011	None Required	Complete	7/27/2011
7	DK_FBGD_DGDGK	Fryburg to Dodge	OASys 7 DNA PLM	API RP 1130 Compliant	12/21/2010	300	300-400	120	12/21/2010	CV installed, DTAs Configured	Complete	4/2/2012
8	FR_CBKFR_CDFR	Canebrake to Cranfield	OASys 7 DNA PLM	API RP 1130 Compliant	6/16/2011	0	150	20	6/16/2011	Δ Ops Procedure, DTAs Configured, RTU installed	Complete	4/27/2012
9	FR_DLDFR_CBKFR	Delhi Denbury to Canebrake	OASys 7 DNA PLM	API RP 1130 Compliant	5/2/2011	0	25	10-15	5/2/2011	DTAs Configured	Complete	5/2/2011
10	HB_TOMHB_JALNM	Thomas to Jal	OASys 7 DNA PLM	API RP 1130 Compliant	5/3/2010	0	300-700	300-420	5/6/2010	Δ Ops Procedure, DTAs Configured	Complete	6/2/2010
11	L2_LAP63_WHY63	LA Pump to West Hynes	SimSuite, OASys 7 DNA PLM	API RP 1130 Compliant	5/3/2010	0	150-400	30	5/6/2010	CV installed, DTAs Configured, Meter installed	Complete	9/3/2010
12	MG_BAYMG_HLBMG	Bay Springs to Heidelberg	OASys 7 DNA PLM	API RP 1130 Compliant	8/1/2011	0	0	10	8/1/2011	RTU installed	Complete	8/1/2011
13	RL_ROBRL_STYRL	Robinson Lake to Stanley	OASys 7 DNA PLM, ATMOS Pipe	API RP 1130 Compliant	4/25/2011	0	0	0	4/25/2011	DTAs Configured	Complete	4/25/2011
14	RN_CASRN_FLMRN	Casper to Guernsey/Ft Laramie	OASys 7 DNA PLM	API RP 1130 Compliant	7/1/2011	0	120	20	7/1/2011	DTAs Configured	Complete	7/1/2011
15	RN_EDGRN_SCKRN	Edgerton to Salt Creek	OASys 7 DNA PLM	API RP 1130 Compliant	7/1/2011	0	120	18	7/1/2011	DTAs Configured, RTU installed	Complete	7/21/2011
16	RN_FLMRN_CHERN	Ft Laramie to Cheyenne	OASys 7 DNA PLM	API RP 1130 Compliant	12/15/2010	0	300-500	30-40	1/6/2011	CV installed, DTAs Configured	Complete	12/15/2011
17	RN_GRYRN_FLMRN_24	Guernsey to Ft Laramie 24"	OASys 7 DNA PLM	API RP 1130 Compliant	1/6/2011	100-2000	1500-2100	60-90	1/6/2011	CV & RTU installed, DTAs Configured	Complete	9/4/2012
18	RN_HAMRN_KBSRN	Hamilton Dome to Kirby	OASys 7 DNA PLM	API RP 1130 Compliant	7/1/2011	0	0	55	7/1/2011	DTAs Configured	Complete	7/1/2011
19	RN_RENRN_SCKRN	Reno to Salt Creek	OASys 7 DNA PLM	API RP 1130 Compliant	6/28/2011	80	80	15	6/28/2011	Δ Ops Procedure, RTU & Meter installed, DTAs Configured	Complete	12/28/2012
20	RN_SCKRN_CASRN	Salt Creek to Casper	OASys 7 DNA PLM	API RP 1130 Compliant	7/25/2011	0	1200	270	7/25/2011	CV installed, DTAs Configured	Complete	1/3/2012
21	RS_GRGRS_WAHR	Granger to Wahsatch	OASys 7 DNA PLM	API RP 1130 Compliant	7/1/2011	200	600	45	7/1/2011	CV installed, DTAs Configured	Complete	5/6/2012
22	RS_ILSRS_WAMRS	Iles to Wamsutter	OASys 7 DNA PLM	API RP 1130 Compliant	2/7/2011	0	0	30-40	2/7/2011	DTAs Configured	Complete	2/7/2011
23	RS_LBPRS_GRRS	LaBarge to Granger	OASys 7 DNA PLM	API RP 1130 Compliant	12/20/2010	600	875	150	12/20/2010	CV installed, DTAs Configured	Complete	2/10/2011
24	RS_WAMRS_GRGRS	Wamsutter to Granger	OASys 7 DNA PLM	API RP 1130 Compliant	5/3/2011	0	500	120	5/3/2011	Δ Ops Procedure, DTAs Configured	Complete	7/22/2011
25	SL_BSESL_COCSL	Bay St Elaine to Cocodrie	OASys 7 DNA PLM	API RP 1130 Compliant	9/1/2011	0	0	0	9/1/2011	None Required	Complete	9/1/2011
26	SP_DRVSP_MCTIR	Driver to McCamey	OASys 7 DNA PLM	API RP 1130 Compliant	6/15/2011	0	50-150	25-60	6/28/2011	CV installed, DTAs Configured	Complete	1/18/2013
27	WT_GOLWT_MIDWT	Goldsmith to Midland #1 10"	OASys 7 DNA PLM	API RP 1130 Compliant	8/1/2011	0	200-500	40	8/1/2011	CV installed, DTAs Configured	Complete	12/19/2012
28	WT_GOLWT_MIDWT_PMT	Goldsmith to Midland #2 8"	OASys 7 DNA PLM	API RP 1130 Compliant	4/1/2011	0	100-200	15-30	4/1/2011	CV installed, DTAs Configured	Complete	5/24/2011
29	WT_MCTIR_MIDIR	McCamey to Midland	OASys 7 DNA PLM	API RP 1130 Compliant	7/1/2011	0	200	20	7/1/2011	DTAs Configured	Complete	7/1/2011
30	WT_MIDMP_CCYMP	Midland Mesa to Colorado City	OASys 7 DNA PLM	API RP 1130 Compliant	4/4/2011	5000	7000	120	7/5/2011	2 CVs installed, DTAs Configured	Complete	2/11/2013

## ATTACHMENT C-2

### Leak Detection and Slack Line operations Investigation and Action Plan Development and Implementation Status September 1, 2012 through February 28, 2013

#### <sup>1</sup> Action Taken To Date

**In Development:** Measure(s) to minimize Slack-Line Operations and/or mitigate the effects of Slack-Line Operations on the CPM leak detection systems is being determined.

**None Required:** No action required. Current CPM leak detection tolerances are adequate or Slack-Line Operations are not present.

**Δ Ops Procedure:** Operating procedures for the applicable Segments of Pipeline including the "start-up" and "shut-in" procedures have been revised.

**BV, CV, MOV ordered/installed:** Block valves (BV), Motor operated valves (MOV), or pressure control devices (CV) have been installed.

**DTAs Configured:** CPM alarm limits have been adjusted to account for the expected refilling of the slack volumes.

**LPC Added:** Line-pack correction has been added to the CPM to compensate for changes in pipeline inventory.

**Meter ordered/installed:** Meter has been installed to improve the line balance between the originating and terminating stations.

**Remove from service:** All or a portion of the pipeline has been removed from the CPM segment.

**RTTM Installed:** Real time transient model has been configured to provide enhanced leak detection on the pipeline segment.

**RTU ordered/installed:** Remote Terminal Unit has been installed at a field site in order to transmit recorded pressure and/or flow and/or temperature measurements back to SCADA.

#### <sup>2</sup> Action Plan Status

**In Development:** Action Plan is being developed. Measure(s) to minimize Slack-Line Operations and/or mitigate the effects of Slack-Line Operations on the CPM leak detection systems is being determined; some measures may be implemented prior to an action plan being developed.

**In Progress:** Action Plan has been developed and the measures to minimize Slack-Line Operations and/or mitigate the effects of Slack-Line Operations on the CPM leak detection system is being implemented.

**Complete:** Action Plan has been developed and the measures to minimize Slack-Line Operations and/or mitigate the effects of Slack-Line Operations on the CPM leak detection system have been implemented.